TRI PROJECT FACILITY SHEET

Facility Name: Anoricen Electric Power Muskingen River Address: County Lane Road 32 Plant
Address: County Lane Dodd 37 Plant
City, ST, Zip Code: 15-4 Nec 1/2 O 14 45715
County: Weshington
Contact Person: Patrick A. Dal Porto
County: Weshington Contact Person: Patrick A. Del Porto Title: Manager, Air Quelity Services
Chemical Name: Hydro Chloric acid.
One Time Release: YN Quantity:
ERNS Report: Y/N/Chemical Name:
Quantity:
Total Released 2003: 730000 0/260 528076.92 Perda. Continuous Release Report: Y/N Chemical Name: 5,800,000 td.
Continuous Release Report: Y/N Chemical Name: 5,400,000 td.
Air Permit: Y/N water Permit: Y/N
Inventory Reporting Section 312(Y/N
Chemical Name: Hard core on Flagge Ja
Chemical Name: Hydrogen Fluoride One Time Release: (Nouantity:
ERNS Report: YN Chemical Name:
\sim
Total Released 2003: 38000 / 260 = 1461.5 th Pel 2. Continuous Release Report: Y/N Chemical Name: 489,000
Continuous Release Report Y/N Chemical Name: USA 2000
Air Permit: Y/N Water Permit: Y/N
And Formite Title William Title
Chemical Name: Sulfusic a eid.
One Time Release: Y/N Quantity:
ERNS Report: Y/N Chemical Name:
Quantity: Total Released 2003: 210000/260 = 3500 Per de . Continuous Release Report: Y/N Chemical Name: 1, 458, 000
Total Released 2003: 9/0000/260= 3500 Perdex
Continuous Release Report: Y/N Chemical Name: 1, 458, 000
Air Permit: Y/N Water Permit: Y/N
Chamical Nama
Chemical Name:
One Time Release: Y/N Quantity:
ERNS Report: Y/N Chemical Name:
Quantity:
Continuous Release Report: Y/N Chemical Name:
Air Permit: Y/N Water Permit: Y/N







Extend & CR KRMS

May 11, 2001

U.S. EPA Region V
Office of CEPP Chemical Preparedness
77 West Jackson Blvd.
Chicago, IL 60604

Re:

American Electric Power

Annual Follow-up Continuous Release Notification

Dear Sir or Madam:

Please find enclosed first anniversary follow-up reports on continuous release notifications for the following facilities:

Facility Name	CR-ERNS Number	Facility Location
Big Sandy Plant	522751 /	Louisa, KY 41230
Cardinal Plant	522824, 5 2 2825 & 522827	Brilliant, OH 43913
Conesville Plant	522818, \$ 22820, 522822 & 522823	Conesville, OH 43811
Gavin Plant	522747 & 522748	Cheshire, OH 45620
Kammer Plant	522800/	Moundsville, WV 26041
Mitchell Plant	522794/	Moundsville, WV 26041
Mountaineer Plant	522753	New Haven, WV 25265
Muskingum River Plant	522754 & 522755 Veetur but	Waterford, OH 45786
Picway Plant	522789	Lockbourne, OH 43137
Rockport Plant	522778	Rockport, IN 47635
Philip Sporn Plant	522816 &-522817	New Haven, WV 25265

These reports are being submitted in accordance with 40 CFR §302.8 to follow up initial written notifications made in May 2000. These reports were prompted by the issuance of an interim guidance document by the Environmental Protection Agency on December 21, 1999 giving notice of specific interpretations of the definition of a "federally permitted release" under Section 101 (10)(H) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA). AEP does not agree with the positions announced in the guidance and has participated in the review and evaluation of the initial guidance and subsequent guidance documents. However, the enclosed reports are based on the interpretations announced in the interim guidance.

Please note that the emissions reported in the enclosed reports represent a range of levels at which individual hazardous constituents may be present in the emissions associated with the normal operations of the major sources at our power plants. They do not represent "emergency" conditions, pose threats to public health or welfare or require specific emergency response or planning activities. Actual emissions will vary with hours of operation, fuel quality and other factors.

If you have any questions concerning the enclosed reports, please contact me at (614) 223-1246.

Sincerely,

Thomas R. Zelina

Thomas & Elia

Manager, Waste Management and Mediation Services

17 Sugar Section Problem

SECTION	I: GENERAL INFORMATION	CR-ERNS	Number:	322755 and 322754
		Date of Initi	al Call to N	RC: 03/13/00
Type of Re	eport: Indicate below the type of report y	ou are submitting.		
Initial W	First Anniversary Follow-up Report	Written Notif of a Change t Initial Notific	o	Written Notification of a Change to Follow-up Report
quantity and r	tement: I certify that the hazardous substate under the definitions in 40 CFR 302.8(a turrent to the best of my knowledge.) or 355.4(a)(2)(iii) a	and that all subm	
	_ <u>Da</u>	n Kohler, Plan Nar	ne and Position	
May 10,01 lan Kabler				
□ Date Signature				
Part A. Facility or Vessel Information				
Name of Fac	ility or Vessel Muskingum River		2, 3 and 4;	and
Person in Charge of Facility or Vessel				
	or Vessel Telephone No. (740) 984-3450 Alternate Telephone No. ())
Address or Street Rural Route No. 2 - Box 310 County Morgan and Washingt			n and Washington	
Port of				Zip Code 45786
Registration Dun and Bradstreet Number for Facility 063765341				
Facility/Vessel Latitude Deg 039 Min 35 Sec 26 Vessel LORAN Coordinates Location Deg 081 Min 40 Sec 46				
Part B. Population Information				
Population Density	Choose the range that describes the population density within a one-mile radius of your facility or vessel (Indicate by placing an "X" in the appropriate blank below).			
Sensitive Populations	Sensitive Populations or Eco (e.g., schools, hospitals, wetlands, wild	•	Distance and	direction from facility
and Ecosystems Within One Mile Radius	State listed endangered and threatened species	·	Less than multiple l	one mile at ocations

SECTION II: SOURCE INFORMATION

CR-ERNS Number:

522755

and

522754

Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.

For EACH source of a release of a hazardous substance or mixture from your facility or vessel, provide the following information on a SEPARATE sheet. Photocopy this page if necessary.

Name of Source:	Muskingum River Stack CS014	
1. Indicate whether the release	from this source is either:	
continuous without interrupti	on OR routine, anticipat	red, intermittent X
	t results in the release from this source (e.g., ba malfunction and explain why the release from the ntity and rate.*	
The releases associated with for production of electricity.	this source result from the combustion of fossil f	uels to produce steam energy
Calculations for releases of identified substances include periods of startup and shutdown and certain circumstances that may be defined as malfunctions under other state and federal regulatory programs but meet the requirements for inclusion in 40 CFR Part 302.8 Continuous Releases, and as incorporated by reference into 40 CFR Part 355 Emergency Planning and Notification.		
3. Identify below how you est	ablished the pattern of release and calculated re	lease estimates.
X Past release data	X Knowledge of the facility/vessel's operations and release history	X Engineering estimate
<u>X</u> AP-42	X Best professional judgment	Other (explain)
<u> </u>		

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

SECTION II: SOURCE INFORMATION (continued)

CR-ERNS Number:

522755

522754

and.

Name of Source:

Muskingum River Stack CS014

Part B: Specific Information on the Source

For the source identified above, provide the following information. Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

AFFECTED MEDIUM. Identify the environmental medium (i.e., air, surface water, soil, or ground water) that is affected by the release from this source. If your source releases hazardous substances to more than one medium (e.g., a wastepile releasing to air and ground water), treat the release to EACH medium as a separate source and complete Section II. Parts A. B. and C. of this format for EACH medium affected.

	IR X (stack X or area) If the medium affected is air, please also specify whether the ource is a stack or a ground-based area source.		
	If identified source is a stack, indicate stack height: 828 feet oxxxxxxxXOR		
1	If identified source is an area source (e.g., waste pile, landfill, valves, tank vents, pump seals, fugitive emissions), indicate surface area: square feet or square meters.		
3 s	URFACE WATER (stream, lake, or other)		
⊘ S	URFACE WATER (stream, lake, or other) If the release affects any surface water body, give the name of the water body.		
1	If the release affects any surface water body, give the name of the water body. If the release affects a stream, give the stream order or average flow rate, in cubic feet per second.		

Optional Information

The following information is not required in the final rule; however, such information will assist EPA in evaluating the risks associated with the continuous release. If this information is not provided, EPA will make conservative assumptions about the appropriate values. Please note that the units specified below are suggested units. You may use other units; however, be certain that the units are clearly identified.

For a stack release to air, provide the following information, if available:
Inside diameter feet or meters
Gas Exit Velocity feet/second or
meters/second
Gas Temperature degrees Fahrenheit,
Kelvin, or Celsius

For a release to surface water, provide the following information, if available:

Average Velocity ______ feet/second of Surface Water

SECTION II: SOURCE INFORMATION

(continued)

CR-ERNS Number:

and 522755 522754

Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Name of Source:

Muskingum River Stack CS014

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances · A Guide for Facilities and Vessels on Compliance.)

		Norma	Normal Range	Number of Days	Total Quantity	
		(in Ibs. ora	(in lbs. orskepper day)*	Release Occurs	Released in Previous Year Months of the	Months of the
Name of Hazardous Substance	CASRN#	Upper Bound	Lower Bound	(per year)	(in lbs. ondego*	Release
Nitrogen oxide	10102439	430,062	194,207	365	30,012,000 -/5006 12	0.06 12
Nitrogen dioxide	10102440	22,635	10,221	365	1,600,000	1 (no 12
Hydrochloric acid	7647010	21,150	9,015	365	2,400,000	12
Hydrogen fluoride	7664393	1,418	605	365	268,000	12
Sulfuric acid	7664939	7,826	3,013	365	1,314,000	12
Mercury	7439976	1.2	0.5	365	349	. 12
Selenium dioxide	7446084	39.0	11.8	365	7,820	12
Calcium arsenate	7778441	10.5	2.7	365	886	12
Cyanides	57125	25.1	10.2	365	4,902	12

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

	•	Months	of the	Release
	Iotal Quantity of	Mixture Keleased	in Previous Year	(in lbs. or kg)
	Number of	Days Release	Occurs	(per year)
Normal Range of	Mixture	(in lbs. or kg per day)*	Upper Lower	Bound Bound
Normal Range of	Components	in lbs. or kg per day)*	Upper Lower	Bound Bound
		•	Weight	
				CASRN#
	Name of	Hazardous	Substance	Components
				Name of Mixture

^{*} Pleuse be sure to include units where appropriate. Also, if the releuse is a radionuclide, units of curies (CI) are appropriate.

SECTION II: SOURCE INFORMATION

CR-ERNS Number:

522755

and

522754

Part A: Basis for Asserting the Release is Continuous and Stable in Quantity and Rate.

For EACH source of a release of a hazardous substance or mixture from your facility or vessel, provide the following information on a SEPARATE sheet. Photocopy this page if necessary.

Name of Source:	Muskingum River Stack 5	
Indicate whether the release	· · · · · · · · · · · · · · · · · · ·	
continuous without interrupt	tionOR routine, anticipate	ed, intermittent
	at results in the release from this source (e.g., bat malfunction and explain why the release from th antity and rate.*	
The releases associated with for production of electricity	h this source result from the combustion of fossil further.	uels to produce steam energy
circumstances that may be meet the requirements for it	identified substances include periods of startup and defined as malfunctions under other state and federactusion in 40 CFR Part 302.8 Continuous Releases 355 Emergency Planning and Notification.	al regulatory programs but
3. Identify below how you es	tablished the pattern of release and calculated rel	ease estimates.
X_ Past release data	X Knowledge of the facility/vessel's operations and release history	X Engineering estimate
X AP-42	X Best professional judgment	Other (explain)
	·	

^{*} Note that unanticipated events, such as spills, pipe ruptures, equipment failures, emergency shutdowns, or accidents, do not qualify for reduced reporting under CERCLA section 103(f)(2). Unanticipated events are not incidental to normal operations and, by definition, are not continuous or anticipated, and are not sufficiently predictable or regular to be considered stable in quantity and rate.

SECTION II: SOURCE INFORMATION (continued)

CR-ERNS Number:

522755 522754

and

Name of Source:

Muskingum River Stack 5

Part B: Specific Information on the Source

For the source identified above, provide the following information. Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

AFFECTED MEDIUM. Identify the environmental medium (i.e., air, surface water, soil, or ground water) that is affected by the release from this source. If your source releases hazardous substances to more than one medium (e.g., a wastepile releasing to air and ground water), treat the release to EACH medium as a separate source and complete Section II, Parts A, B, and C, of this format for EACH medium affected.

sou	rce is a stack or a ground-based area source. If identified source is a stack, indicate stack height: 828_ feet *** ******************************
	If identified source is an area source (e.g., waste pile, landfill, valves, tank vents, pump seals, fugitive emissions), indicate surface area: square feet or square meters.
SU	RFACE WATER (stream, lake, or other)
	If the release affects any surface water body, give the name of the water body.
	If the release affects a stream, give the stream order or average flow rate, in cubic feet per second. stream order: or average flow rate: cubic feet/second; OR
	If the release affects a lake, give the surface area of the lake in acres and the average depth in meters. surface area of lake: acres and average depth of lake: meters.
	- · · · · · · · · · · · · · · · · · · ·

Optional Information

The following information is not required in the final rule; however, such information will assist EPA in evaluating the risks associated with the continuous release. If this information is not provided, EPA will make conservative assumptions about the appropriate values. Please note that the units specified below are suggested units. You may use other units; however, be certain that the units are clearly identified.

For a stack release information, if ava	to air, provide the following ilable:
Inside diameter	feet or meters
Gas Exit Velocity	feet/second or
	meters/second
Gas Temperature	degrees Fahrenheit.
	Kelvin or Celsius

For a release to surf following information	ace water, provide the
Average Velocity of Surface Water	feet/second

SECTION II: SOURCE INFORMATION (continued)

CR-ERNS Number:

and 522755

522754

Please provide a SEPARATE sheet for EACH source. Photocopy this page if necessary.

Part C. Identity and Quantity of Each Hazardous Substance or Mixture Released From Each Source

Name of Source:

Muskingum River Stack 5

List each hazardous substance released from the source identified above and provide the following information. (For an example, see Table 1 of Reporting Requirements for Continuous Releases of Hazardous Substances - A Guide for Facilities and Vessels on Compliance.)

		Norma	Normal Kange	Number of Days	Total Quantity	
		(in Ibs. ARK	(in lbs. ARAS per day)*	Release Occurs	Released in Previous Year	Months of the
Name of Hazardous Substance	CASRN#	Upper Bound	Lower Bound	(per year)	(in lbs. xor kg x*	Release
Nitrogen oxide	10102439	127,717	126,507	365		11 700 12
Nitrogen dioxide	10102440	6,722	3,775	365		12
Hydrochloric acid	7647010	13,655	6,692	365	3,400,000	12
Hydrogen fluoride	7664393	916	449	365	221,000	12
Sulfuric acid	7664939	1,053	361	365	144,000	12
Selenium dioxide	7446084	25.1	8.7	365	6,630	12
Calcium arsenate	7778441	11.5	2.2	365	728	1.2
Cyanides	57125	14.1	8.3	365	3,902	12
Mercury	7439976	0.7	0.3	365	153	12

List each mixture released from the source identified above and provide the following information. (For an example, see Table 2 of Reporting Requirements for Continuous Releases of Hazardous Substances • A Guide for Facilities and Vessels on Compliance.)

		Months	of the	Release
	lotal Quantity of		in Previous Year	(in ths. or kg)
				· (per year)
Normal Kange of	Mixture	(in lbs. or kg per day)*	Upper Lower	Bound Bound
Normal Kange of	Components	(in lbs. or kg per day)*	Upper Lower	Bound Bound
			Weight	Percentago
				CASRN#
	Name of	Hazardous	Substance	Components
				Name of Mixture

^{*} Please be sure to include units where appropriate. Also, if the release is a radionuclide, units of curies (CI) are appropriate.

CR-ERNS Number:

522755

and

522754

Calculation of the SSI Trigger

For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.

Name of Hazardous Substance:

Nitrogen oxide

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

Upper Bound of the Normal Range of the Release (specify lbs., kgx 82 (Six)

Muskingum River Stack CS014

430,062

Muskingum River Stack 5

127,717

TOTAL - SSI trigger for this hazardous substance release*: 557,779

^{*} This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.

CR-ERNS Number:

522755

and

522754

Calculation of the SSI Trigger

For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.

Name of Hazardous Substance:

Nitrogen dioxide

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

Upper Bound of the Normal Range of the Release (specify lbs., kgx 80x 50x)

Muskingum River Stack CS014

22,635

Muskingum River Stack 5

6,722

TOTAL - SSI trigger for this hazardous substance release*:

29 357

^{*} This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.

CR-ERNS Number:

522755

and

522754

Calculation of the SSI Trigger

For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.

Name of Hazardous Substance:

Hydrochloric acid

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

Upper Bound of the Normal Range of the Release (specify lbs., skee cox (Ex))

Muskingum River Stack CS014

21,150

Muskingum River Stack 5

13,655

TOTAL - SSI trigger for this hazardous substance release*: 34,805

^{*} This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.

CR-ERNS Number:

522755

and

CK-EKINS Number

522754

Calculation of the SSI Trigger

For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.

Name of Hazardous Substance:

Hydrogen fluoride

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

Upper Bound of the Normal Range of the Release (specify lbs., kegworker)

Muskingum River Stack CS014

1,418

Muskingum River Stack 5

916

TOTAL - SSI trigger for this hazardous substance release*: 2,33

^{*} This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.

CR-ERNS Number:

522755

and

522754

Calculation of the SSI Trigger

For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.

Name of Hazardous Substance:

Sulfuric acid

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

Upper Bound of the Normal Range of the Release (specify lbs., kgx per (Six)

Muskingum River Stack CS014

7,826

Muskingum River Stack 5

1,053

TOTAL - SSI trigger for this hazardous substance release*: 8,8

^{*} This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.

CR-ERNS Number:

522755

and

522754

Calculation of the SSI Trigger

For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.

Name of Hazardous Substance:

Mercury

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

Upper Bound of the Normal Range of the Release (specify lbs., kgxxxii)

Muskingum River Stack CS014

1.2

Muskingum River Stack 5

0.7

^{*} This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.

CR-ERNS Number:

522755 522754

and

Calculation of the SSI Trigger

For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.

Name of Hazardous Substance:

selenium dioxide

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

Upper Bound of the Normal Rangé of the Release (specify lbs., key or Si)

Muskingum River Stack CS014

39.0

Muskingum River Stack 5

25.1

TOTAL - SSI trigger for this hazardous substance release*: ___64.

^{*} This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.

CR-ERNS Number:

522755

and

522754

Calculation of the SSI Trigger

For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.

Name of Hazardous Substance:

calcium arsenate

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture; be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

Upper Bound of the Normal Range of the Release (specify lbs., xksexxonx&x)

Muskingum River Stack CS014

10.5

Muskingum River Stack 5

11.5

TOTAL - SSI trigger for this hazardous substance release*:

^{*} This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.

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and

Calculation of the SSI Trigger

For EACH hazardous substance or hazardous substance component of a mixture indicated in Section II, Part C, list the names of the releasing sources and their upper bounds. Please use a SEPARATE sheet for EACH hazardous substance. Photocopy this page if necessary.

Name of Hazardous Substance:

cyanides

To calculate the SSI trigger (i.e., the upper bound of the normal range of a release) for the hazardous substance identified above, aggregate the upper bounds of the normal range of the identified hazardous substance across all sources identified in Section II, Part C. If the hazardous substance is also a component of a mixture, be certain to include the upper bound of the component as calculated in Section II, Part C, in your calculation of the SSI trigger.

Name of Source(s)

Upper Bound of the Normal Range of the Release (specify lbs., kg:on&i)

Muskingum River Stack CS014

25.1

Muskingum River Stack 5

14.1

TOTAL - SSI trigger for this hazardous substance release*: ____39.2

^{*} This method for calculating the SSI trigger for the hazardous substance assumes that all releases of the same hazardous substance or mixture occur simultaneously. To the extent that a hazardous substance is released from your facility from different sources and at different frequencies, you may adjust the SSI trigger as appropriate, so that it more accurately reflects the frequency and quantity of the release. The SSI trigger in the final analysis must reflect the upper bound of the normal range of the release, taking into consideration all sources of the release at the facility or vessel. The normal range of the release includes all releases previously reported or occurring over a 24-hour period during the previous year.